



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/034,794	12/28/2001	Senaka Balasuriya	33692.01.0023	1315
23418	7590	11/30/2006		
VEDDER PRICE KAUFMAN & KAMMHOLZ 222 N. LASALLE STREET CHICAGO, IL 60601				
			EXAMINER ALAM, UZMA	
			ART UNIT 2157	PAPER NUMBER

DATE MAILED: 11/30/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/034,794	Applicant(s) BALASURIYA, SENAKA	
	Examiner Uzma Alam	Art Unit 2157	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 9/23/06.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6, 19-21 and 26-30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6, 19-21 and 26-30 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 December 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>6/30/06</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

This action is responsive to the arguments filed September 23, 2006. Claims 1-6, 19-21 and 26-30 are pending. Claims 1-6, 19-21 and 26-30 represent a multi-modal communication method.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-6, 19-21 and 26-30 rejected under 35 U.S.C. 103(a) as being unpatentable over Boloker et al. US Patent Publication No. 2002/0194388 in view of Gbadegesin US Patent No. 6,754,709. Boloker teaches the invention as claimed including method for implementing multi-modal browsing (see abstract). Gbadegesin teaches the invention as claimed including an intelligent transparent gateway having the advantages of a proxy (see abstract).

As per claims 1 and 26, Boloker teaches an apparatus and method for multi-modal communication comprising:

a controller (the synchronization manager; pp 201); and
at least one multi-modal session proxy server having a proxy address, (the multi modal shell, Figure 24, pp 0073, 0090, 0201, 0202, 0206, 0225). Boloker does not teach wherein the controller determines, on a per session basis, a multi-modal proxy identifier representing the

Art Unit: 2157

proxy address of the multi-modal session proxy server. Gbadegesin teaches wherein the controller determines, on a per session basis, a multi-modal proxy identifier representing the proxy address of the multi-modal session proxy server. See column 8, lines 43-67 and column 9, lines 1-10.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to combine the proxy server of Boloker with the determining proxy address on a per session basis of Gbadegesin. A person of ordinary skill in the art would have been motivated to do this to provide access to other servers which are slower and more costly to access.

As per claim 2, Boloker teaches the apparatus of claim 1 further comprising: at least one browser having a per session multi-modal proxy evaluator and a browser proxy identifier, wherein the browser is operably coupled to the controller and the at least one multi-modal session proxy server such that the browser receives the multi-modal proxy identifier and the browser proxy identifier is evaluated by the multi-modal proxy evaluator, on a per session basis, in response to the multi-modal proxy identifier (the multi-modal proxy evaluator is taught by the modal view controller (MVC) and the browser proxy ID is located in the wrapper (42a); Figures 23 and 25, pp. 0082, 0090, 0102, 0112, 0179-0186, 0207, 0252).

As per claim 3, Boloker teaches the apparatus of claim 1 further comprising:
at least one voice browser having a voice browser per session multi-modal proxy evaluator and a voice browser proxy identifier, wherein the voice browser is operably coupled to the controller and the at least one multi-modal session proxy server such that the voice browser

Art Unit: 2157

receives the multi-modal proxy identifier and the voice browser proxy identifier is evaluated by the voice browser per session multi-modal proxy evaluator, on a per session basis, in response to the multi-modal proxy identifier (the browser is a voice browser which is connected to the MVC and the Multi-modal shell; pp 0183-0185, 0214, 0216); and

at least one graphical browser having a graphical browser per session multi-modal proxy evaluator and a graphical browser proxy identifier, wherein the graphical browser is operably coupled to the controller and the at least one multi-modal session proxy server such that the graphical browser receives the multi-modal proxy identifier and the graphical browser proxy identifier is evaluated by the graphical browser per session multi-modal proxy evaluator, on a per session basis, in response to the multi-modal proxy identifier (the browser is a graphical browser (GUI) which is connected to the MVC and the Multi-modal shell; pp 0183-0185, 0214, 0216).

As per claim 4, Boloker teaches the apparatus of claim 3 further comprising:

at least one graphical browser multi-modal synchronization interface operably coupled to the graphical browser; at least one voice browser multi-modal synchronization interface operably coupled to at least one the voice browser (each browser has an interface manager; Figure 26 and 28, pp 0092, 0183-0187, 0201, 0226, 0228); and

at least one multi-modal synchronization coordinator operably coupled to the graphical browser multi-modal synchronization interface, the voice browser multi-modal synchronization interface and the multi-modal session proxy, wherein multi-modal session proxy server allows the multi-modal synchronization coordinator to synchronize the at least one graphical browser and the at least one voice browser (the browsers are synchronized by the interface manager and

synchronization manager; Figure 26 and 28, pp 0092, 0183-0187, 0201, 0226, 0228).

As per claim 5, Boloker teaches the apparatus of claim 4 further comprising: at least one information request provided by at least one of the at least graphical browser and the at least one voice browser to the multi-modal session proxy server whereby the multi-modal session proxy server fetches requested information from a content server (the MM shell gets information from the content server; Figure 26, pp 0082, 0092, 0111, 0112); and

wherein if the requested information is provided to the at least one voice browser, the at least one graphical browser is updated via the at least one graphical browser multi-modal synchronization interface through the multi-modal synchronization coordinator and if the requested information is provided to the at least one graphical browser, the at least one voice browser is updated via the voice browser multi-modal synchronization interface through the multi-modal synchronization coordinator (the information is processed through a synchronization coordinated and MVC; Figure 27, pp 0226-0228, 0230, 0241-0244).

As per claims 6 and 27, Boloker teaches the apparatus of claim 1 and method of claim 26 wherein the controller further comprises at least one load balancer whereupon the controller determines the multi-modal proxy identifier in response to the at least one load balancer (pp 0109, 0226, 0245)

As per claim 19, Boloker teaches a method for multi-modal communication comprising: receiving a multi-modal proxy identifier, for a browser; evaluating, on a browser proxy identifier

in response to receiving the multi-modal proxy identifier; and (the multi-modal proxy evaluator is taught by the modal view controller (MVC)and the browser proxy ID is located in the wrapper (42a); Figures 23 and 25, pp. 0082, 0090, 0102, 0112, 0179-0186, 0207, 0252). Boloker does not teach wherein the controller determines, on a per session basis, a multi-modal proxy identifier representing the proxy address of the multi-modal session proxy server sending an information request via a multi-modal session proxy server identified by the multi-modal proxy identifier. Gbadegesin teaches wherein the controller determines, on a per session basis, a multi-modal proxy identifier representing the proxy address of the multi-modal session proxy server. See column 8, lines 43-67 and column 9, lines 1-10.

It would have been obvious to a person of ordinary skill in the art at the time of the invention to combine the proxy server of Boloker with the determining proxy address on a per session basis of Gbadegesin. A person of ordinary skill in the art would have been motivated to do this to provide access to other servers which are slower and more costly to access.

As per claim 20, Boloker teaches the method of claim 19 further comprising:
fetching requested information from at least one content server (the MM shell gets information from the content server; Figure 26, pp 0082, 0092, 0111, 0112); and
providing the requested information to the browser (the information is processed through a synchronization coordinated and MVC; Figure 27, pp 0226-0228, 0230, 0241-0244).

As per claim 21, Boloker teaches the method of claim 20 further comprising: prior to sending an information request, storing an updated browser proxy identifier in a memory

location (pp 201, 202, 206, 225).

As per claim 28, Boloker teaches the method of claim 26 further comprising: prior to determining a multi-modal session proxy server, on a per session basis, initiating a multi-modal session between a terminal and a multi-modal network element (the multi-modal proxy evaluator is taught by the modal view controller (MVC)and the browser proxy ID is located in the wrapper (42a); Figures 23 and 25, pp. 0082, 0090, 0102, 0112, 0179-0186, 0207, 0252).

As per claim 29, Boloker teaches the method of claim 28 further comprising: evaluating, on a per session basis, a browser proxy identifier in response to receiving the multi-modal proxy identifier; and receiving an information request from the browser to the multi-modal session proxy server identified by the multi-modal proxy identifier (the multi-modal proxy evaluator is taught by the modal view controller (MVC)and the browser proxy ID is located in the wrapper (42a); Figures 23 and 25, pp. 0082, 0090, 0102, 0112, 0179-0186, 0207, 0252).

As per claim 30, Boloker teaches the method of claim 28 further comprising:
fetching requested information from at least one content server (the MM shell gets information from the content server; Figure 26, pp 0082, 0092, 0111, 0112); and
providing the requested information to the browser (the information is processed through a synchronization coordinated and MVC; Figure 27, pp 0226-0228, 0230, 0241-0244).

Response to Arguments

3. Applicant's arguments filed September 23, 2006 with respect to claims 1-6, 19-21 and 26-30 have been considered but are not persuasive.

4. Applicant argues a) Gbadegesin does not teach a controller that determines on a per session basis a multimodal proxy identifier representing proxy address of the multimodal session proxy sever and b) Boloker does not teach that the browser proxy identifier is evaluated by a multimodal proxy evaluator on a per session basis in response to a multimodal proxy identifier.

5. In response to a) Gbadegesin teaches a generalized network addresses translator (gNAT) that modifies and identifies the source and/or destination address of a given network session in a manner transparent to the original source host and/or destination host. This ability allows true intelligent proxy controlled arbitrary redirection on network sessions. This is taught in column 6, lines 42-47 in Gbadegesin. Gbadegesin teaches multimodal communication in column 6, lines 49-57 where it is taught that the invention is not limited to only one mode of operation, but can accommodate different modes.

6. In response to b) Boloker teaches that a browser proxy identifier is evaluated in paragraph 0082 where the appropriate multi-modal user interface will determine what form of application is provided to the browser by a server evaluating browser rendering features. A user interface supports dynamic and often unpredictable dynamic switches across modalities.

Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Uzma Alam whose telephone number is (571) 272-3995. The examiner can normally be reached on Monday-Tuesday 5:30 AM - 2:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on (571) 272-4001. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.


Art Unit: 2157

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Uzma Alam

Ua

November 20, 2006


ARIO ETIENNE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100